PATENT COOPERATION TREATY

\mathbb{PCT}

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2207082/DH/GJM	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/AU 99/00681	24 August 1999		24 September 1998			
Applicant SCOTT, Leonard James						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists of a	total of 3 sheets.					
It is also accompanied by a	copy of each prior art docu	ment cited in this repo	ort.			
1. Basis of the report						
a. With regard to the language, the which it was filed, unless otherwi	international search was dise indicated under this ite	carried out on the basis em.	of the international application in the language in			
the international search w Authority (Rule 23.1(b)).	as carried out on the basis	s of a translation of the	international application furnished to this			
b. With regard to any nucleotide an carried out on the basis of the seq		e disclosed in the inter	national application, the international search was			
contained in the internation	onal application in written	form.				
filed together with the int	ernational application in o	computer readable form	ı.			
furnished subsequently to	this Authority in written	form.				
furnished subsequently to	this Authority in compute	er readable form.				
application as filed has be	een furnished.		s not go beyond the disclosure in the international dentical to the written sequence listing has been			
2. Certain claims were foun	d unsearchable (See Box	(I).				
3. Unity of invention is lacki	ing (See Box II).					
4. With regard to the title,	the text is approved as	submitted by the applic	cant.			
	the text has been estable	ished by this Authority	to read as follows:			
5. With regard to the abstract, X	the text is approved as st	ubmitted by the applica	nt			
	the text has been establish The applicant may, with submit comments to this	in one month from the	: 38.2(b), by this Authority as it appears in Box III. date of mailing of this international search report,			
6. The figure of the drawings to be publ	ished with the abstract is	Figure No. 3				
X	as suggested by the appl	icant.	None of the figures			
	because the applicant fai	iled to suggest a figure				
	because this figure bette	r characterizes the inve	ention			

INTERNATIONAL SEARCH REPORT

International application No.

			PCT/AU 99/00681			
A.	CLASSIFICATION OF SUBJECT MATTER					
Int Cl ⁶ :	G09F 3/10					
According to	International Patent Classification (IPC) or to bot	h national classification and Il	PC			
В.	FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC: G09F 3/10						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data WPAT	base consulted during the international search (name of	f data base and, where practicable	e, search terms used)			
С.	DOCUMENTS CONSIDERED TO BE RELEVAN	Γ				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passa	ages Relevant to claim No.			
Α .	CA 2172237 A (WALLACE COMPUTER SER 1996Error! Bookmark not defined.	VICES, INC) 8 December	1			
P,A	Derwent Abstract Accession No. 98-588748/50, Class A97, JP 10-264338 (FUJI SEAL KOGYO KK) 6 October 1998					
X	US 4398985 A (EAGON) 16 August 1983 See column 5, lines48 - 51		4			
P,A	Derwent Abstract Accession No. 98-255608, Cla JP 10-081860 (OJI PAPER CO) 31 March 1998		4 '			
	Further documents are listed in the continuation of Box C	X See patent fa	mily annex			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date priority date and not in conflict with the application but of understand the principle or theory underlying the invention of document of particular relevance; the claimed invention or document or documen						
Date of the actu 20 September	nal completion of the international search	Date of mailing of the internation 22 S	onal search report SEP 1902			
		Authorized officer J.W. THOMSON Telephone No.: (02) 6283 2214				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. **PCT/AU 99/00681**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Do	cument Cited in Search Report			Patent	Family Member		
US	4398985	AU	66692/81	DE	3102850	FR	2475459
		GB	2068833	IT	8167167	JP	56127446
		NL	8100594				
							END OF ANNEX

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2207082		ation of Transmittal of International Preliminary n Report (Form PCT/IPEA/416).					
International application No.	International filing date (day/month)	/year) Priority Date (day/month/year)					
PCT/AU99/00681	24 August 1999	24 September 1998					
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC						
Int. Cl. ⁷ G09F 3/10							
Applicant SCOTT, Leonard James							
	examination report has been prepare the applicant according to Article 36	d by this International Preliminary Examining					
	al of 3 sheets, including this cover						
been amended and are th	panied by ANNEXES, i.e., sheets of e basis for this report and/or sheets or ion 607 of the Administrative Instruc	the description, claims and/or drawings which have ontaining rectifications made before this Authority tions under the PCT).					
These annexes consist of a total	of sheet(s).						
3. This report contains indications relati	ng to the following items:						
I X Basis of the repor	t						
II Priority		!					
III Non-establishmer	it of opinion with regard to novelty, is	nventive step and industrial applicability					
IV Lack of unity of it	nvention						
1 1 - 1	nt under Article 35(2) with regard to anations supporting such statement	novelty, inventive step or industrial applicability;					
VI Certain document	s cited						
VII Certain defects in	the international application						
VIII Certain observation							
Date of submission of the demand		tion of the report					
20 April 2000 Name and mailing address of the IPEA/AU	10 October 20 Authorized Offic						
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUST E-mail address: pct@ipaustralia.gov.au	J.W. THOM	SON					
Facsimile No. (02) 6285 3929	Telephone No.	(02) 6283 2214					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU99/00681

L.	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages , filed with the demand,
	pages, received on with the letter of
	the claims, pages, as originally filed,
	pages , as amended (together with any statement) under Article 19,
	pages , filed with the demand,
	pages, received on with the letter of
	the drawings, pages, as originally filed,
	pages, filed with the demand,
-	pages, received on with the letter of the sequence listing part of the description:
	pages , as originally filed pages , filed with the demand
	pages, filed with the demand pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in
2.	which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
**	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report



Claims 4

Claims

Claims 1 - 18

International application No.

NO

YES

NO

PCT/AU99/00681

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement		,			
	Novelty (N)	Claims 1 - 3, 5 - 18	YES			
		Claims 4	NO			
	Inventive step (IS)	Claims 1 - 3, 5 - 18	YES			

2. Citations and explanations (Rule 70.7)

Industrial applicability (IA)

US 4398985 A (EAGON) 16 August 1983

This citation discloses a label having the features defined in claim 4. See in particular column 5 lines 48 - 51.

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

(11) International Publication Number:

WO 00/19395

G09F 3/10

A1

(43) International Publication Date:

6 April 2000 (06.04.00)

(21) International Application Number:

PCT/AU99/00681

(22) International Filing Date:

24 August 1999 (24.08.99)

(30) Priority Data:

PP 6135 42420/99 24 September 1998 (24.09.98) AUΑŪ

2 August 1999 (02.08.99)

(71)(72) Applicant and Inventor: SCOTT, Leonard, James [AU/AU]; 78 Grant Road, Somerville, VIC 3912 (AU).

(74) Agents: HENSHAW, Damon et al.; Davies Collison Cave, 1 Little Collins Street, Melbourne, VIC 3000 (AU).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

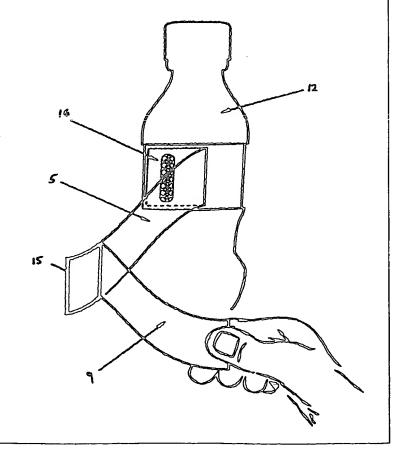
Published

With international search report.

(54) Title: A LABEL

(57) Abstract

A composite label (1) including a first layer (5) of printed polyester for displaying information at a first major surface (2) of the label and a second layer (7) including material having a density less than the polyester for presenting information at a second major surface (3) of the label, the second layer including a removable portion (8) arranged to be separated from the label and secured to another object. Preferably, the material of the second layer comprises polypropylene and includes an adhesive (40) on one side thereof for securing the removable portion to the first layer and the first layer includes a release coating (38) to facilitate removal of the portion therefrom, the adhesive and release coating providing a release strength factor of between 17 grams force/50 mm and 30 grams force/50 mm. In an alternative arrangement, the label (1) may be provided with a clear polyester forming the first layer and the second layer may include a clear polypropylene with a plurality of overlaid print layers applied thereto for displaying information to both sides for the label.



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A LABEL

Field of the Invention

5 The present invention relates to the field of labels, particularly labels with removable promotional or advertising material.

Background of the Invention

10 The broad concept of providing labels with removable adhesive stickers is known. For example, International Patent Application No. PCT/US97/18837 discloses a label with an adhesive sticker arranged on an inside face of the label. Such a label is, however, known to be formed of a simple double layer construction of conventional laminated paper or polypropylene material which is considered to be cost effective and sufficiently robust for use with tinned produce or the like. There has not to the applicant's knowledge been any suitable application of such a label to the soft drink industry where material thickness and reliable application of the label is of paramount concern.

The object of the present invention is to provide a label construction which is particularly, but 20 not exclusively, suitable for use in a commercial bottle labelling installation and more specifically it is an object to provide a label which is readily adapted to be cut and wrapped about a bottle for proper application during bottle manipulation.

Summary of the Invention

25

In accordance with the invention, there is provided a composite label including a first layer of printed polyester for displaying information at a first major surface of the label and a second layer including material having a density less than the polyester for presenting information at a second major surface of the label, the second layer including a removable portion arranged to be separated from the label and secured to another object.

Polyester has previously been used as a clear laminate for labels but has not, to the Applicant's knowledge, ever been used as an information carrying surface in a composite label. The invention preferably uses a white polyester which is chemically treated for penetration and acceptance of ink. Preferably, the material of the second layer comprises polypropylene. The polyester provides a number of advantages due to its comparative density relative to the polypropylene. For example the depth dimension of the label may be minimised whilst a suitable degree of strength is maintained in the label and the polypropylene may be readily cut or scored due to its relative softness, so as to define the removable portion, without compromising the integrity of the polyester layer.

10

Preferably, the second layer includes an adhesive on one side thereof for securing the removable portion to the first layer and the first layer includes a release coating to facilitate removal of the portion therefrom, the adhesive and release coating providing a release strength factor of between 17 grams force/50mm and 30 grams force/50mm.

15

Such a release strength factor represents the result of a considerable amount of research into application of a composite label to the bottling industry. The release strength factor prevents accidental "fly-offs" or separation of the first and second layers during high speed labelling, whilst still allowing a user to peel off the removable portion with relative ease.

20

Accordingly, another broad aspect of the invention relates to the release strength factor and provides a composite label including a first layer for displaying information at a first major surface of the label and a second layer including a removable portion arranged to be separated from the label and secured to another object, wherein the second layer includes an adhesive on one side thereof for securing the removable portion to the first layer and the first layer includes a release coating to facilitate removal of the portion therefrom, the adhesive and release coating providing a release strength factor of between 17 grams force/50mm and 30 grams force/50mm.

30 The first and second layers may then be formed as described above but, alternatively, the second layer may instead be printed with information for display to both sides thereof and the

first layer may be transparent such that the information printed on the second layer is viewable from the first major surface of the label.

In that regard, the second layer may also be a transparent material, such as clear polypropylene, with a plurality of overlaid print layers applied thereto comprising a first image printed on the transparent material, for display toward the first major surface, a masking layer and a second image facing outwardly of the second major surface.

Preferably, the release coating is formed of a silicon material.

10

Preferably, a clear polypropylene laminate is applied on the first major surface. Preferably a varnish is applied to the second major surface with a coefficient of friction in the range of about 0.25 to 0.40.

15 Preferably, a depth dimension of the first layer is in the range of about 12 micron to 36 micron. Preferably, the second layer has a depth dimension in the range of about 23 micron to 36 micron.

Preferably, the second layer includes a mark for detection by an electronic eye to facilitate 20 actuation of a cutting device, for scoring the second layer so as to define the removable portion. Preferably the portion is in the form of a sticker.

Preferably, the label is for use with a bottle and includes an aggressive adhesive applied to the second major surface in a region adjacent the removable portion, to facilitate secure attachment of the label to the bottle.

Brief Description of the Drawings

The invention is more fully described, by way of non-limiting example only, with reference to the accompanying drawings, in which:

- 4 -

Figure 1 is a perspective view of a label in accordance with the invention;

Figure 2 is a perspective view of a bottle with the label affixed thereto;

Figure 3 is a perspective view of the bottle of Figure 2 with the label partially removed;

Figure 4 is a schematic flow chart illustrating the manufacturing steps for producing the label;

5 Figure 5a is a diagrammatic plan view of the label of the invention;

Figure 5b is a diagrammatic exploded cross-section view of the label of Figure 5a;

Figure 6 is a diagrammatic cross-sectional view of a score line being formed in the label; and Figure 7 is a diagrammatic cross-section view, similar to that shown in Figure 5b, illustrating

an alternative label construction.

10

Detailed Description of Preferred Embodiments

The label 1 includes a first major surface 2 which is arranged to present information such as, for example, a trade mark or advertising material, and a second major surface 3. The first major surface is formed by a first layer 5 of printed polyester, which is preferably coated with a clear polypropylene laminate 6 and the second major surface 3 is formed by a second layer 7 of polypropylene. The second layer 7 is divided into a removable portion 8, such as a sticker 9, and a tab 10 which comprises part of fastening means 11 for securing the label to an object such as a bottle 12, as shown in Figure 2.

20

The label 1 is affixed to the bottle 12 by securing the fastening means 11 to the bottle with a suitable first aggressive adhesive 13. A second aggressive adhesive 14 may then be applied such that a second end 15 of the label may be wrapped around the bottle 12 and securely attached to a first end 16 of the label 1.

25

The second end 15 of the label 1 may then be freed by gripping the second end and peeling it away from the first end 16. The label may then be unwound from the bottle and the sticker 9 removed in the manner shown in Figure 3. The fastening means ensures that the label 1 remains attached to the bottle 12.

30

As can be appreciated from the above, the invention provides a means of utilising a second

- 5 -

major surface of a label by attaching a removable sticker thereto. Further, removal of the sticker may be achieved without removing the rest of the label from the bottle so as to inhibit littering which may otherwise result if the label disengages from the bottle.

5 The construction of the label is more fully described with reference to Figure 4.

The first layer 5 is produced by firstly forming a suitable polyester at step 20. The polyester is preferably a white polyester produced by combining PET (polyethylyne terepthalate) material with titaniumdioxide. The material is then chemically treated at step 21 for acceptance and penetration of ink, using a suitable combination of methylmetracrylate, butylacrylate, melamine resin and acrylic binder. Conventional plasma/Corona treatment was found not to provide adequate ink acceptance, with the result of deterioration and ink delamination from the polyester.

15 A release coating is applied at 22 on a side of the first layer which is to face the removable portion of the second layer. The release coating is preferably applied by way of a solvent based silicon treatment or a UV based coated silicon treatment in order to render the first layer with a silicon coating in the order of 0.5 to 3.0 grams/m², to provide a tight release of between 17 grams force/50mm and 30 grams force/50mm. Such a release strength factor achieves a significant advantage in that inadvertent release of the second layer from the first layer during labelling is prevented whilst still allowing the sticker portion 8 to be relatively easily removed by a purchaser of the bottle.

The second layer 7 is produced simultaneously with the first layer 5 and is formed of a material of less density than the first layer. The material is preferably polypropylene material which is formed at step 23, preferably as a white or opaque Biaxially Orientated Polypropylene (BOPP) which is then subjecting to a conventional Corona treatment 24 in order to lift a Dyne level of the material to within the range 33 to 73 for enhanced print adhesion.

30

A side of the second layer facing toward the first layer is coated with an adhesive at step 25.

The adhesive is preferably an acrylic emulsion adhesive or a solvent based adhesive, suitable for effective operating temperatures of between -16°C and 78°C. The adhesive is applied either by way of a roller or suitable spray system, to achieve a range of 9 to 25 grams/m².

- 5 The first and second layers are each produced separately in a continuous strip form and are secured together at step 26, whereby the adhesive applied to the second layer at step 25 is removably attached to the release coating of the first layer, applied at step 22. The "burst strength" of the combined layers was found to be in the order of 20 to 28 kg/mm².
- 10 At step 27, a printing process is applied to form printed information, artwork or the like for display at the first major surface, facing outwardly of the bottle to which the label is attached to.

Simultaneously, a printing process 28 is applied to provide the artwork to the sticker 9 whilst also rendering an eye mark on the second layer, followed by application of a slip varnish which is applied over the artwork at step 29. A clear polypropylene protective laminate may then be applied at step 30 on the outward facing side of the first layer.

The combined layers are then passed under an electronic eye at step 31 which detects the eye mark and actuates a rotary cutter at 32 to score a line in the second layer which defines the removable portion of the label. A second electronic eye 33 activates another rotary cutter at 34 to separate the strip of combined layers into individual labels which are then passed about a vacuum roller (not shown) for application of aggressive adhesive and attachment to a respective bottle.

25

A more detailed example of the appearance of the second major surface 3 of a label 1, constructed in the above manner is shown in Figure 5a. The label may be of any suitable dimensions. As an example, the label may be adapted to fit to a conventional 600ml bottle produced by, for example, Coca-Cola and has an overall length dimension "L" of 235mm and a height dimension "H" in the order of 45mm. The removable sticker portion 8 may have a length "l" in the order of 175mm in order to provide 30mm long scanning regions 35 at either

-7-

end of the label, to allow for reliable detection of an eye mark 36, which facilitates actuation of the rotary cutters at steps 32 and 34.

Referring now to the diagrammatic exploded cross section of Figure 5b, the depth dimension 5 "D" of the first layer 5, including print 37 and release coating 38 is in the range of about 12 micron to 36 micron. The second layer 7, including print 39 and adhesive 40, has a depth dimension "d" in the range of about 23 micron to 40 micron. This compares favourably with a conventional bottle label which has an overall depth dimension in the range 40 to 46 microns, allowing for addition of the clear polypropylene overlaminate 41, in the order of 12 micron.

As may be appreciated, the relative density and strength of the polyester created allows the overall thickness of the label 1 to be minimised so as to be comparable to that of a conventional label. The relative density of the polyester also provides an advantage that the polypropylene of the second layer 7 may be readily scored without cutting through the first layer. This is illustrated diagrammatically in Figure 6 where a region 42 of the polyester layer 5 resists a force generated by a cutting action, indicated by arrow 43, which serves to cut through the relatively soft polypropylene to produce a score 44 in the second layer 7. Such a score is represented by line 44 in Figure 5a, for defining the removable portion 8. As 20 such, the second layer may be readily scored by the rotary cutter at step 32, as represented in Figure 4, without severing or perforating the label as a whole. Accordingly, the label may still reliably be fed through a conventional bottling installation.

In addition to the above label composition, it may also be necessary to apply the slip varnish 45 to reduce the co-efficient of friction (C.O.F.) of the label to that available with conventional labels, in order that the label 1 runs smoothly through a labelling installation. More specifically, at present, bottle labels may be impregnated with "dust" on a rear surface, at a mill stage so that whilst travelling along the path of a labeller, at certain points, the material slips into predetermined positions, such as during application to a bottle. In particular, after individual labels are cut using electronic eye technology the individual labels are applied to a vacuum drum and allowed to "slip" around the vacuum drum until a bottle

travels past.

The degree of slip is critical to allow correct timing for application of the labels and is determined by the C.O.F. of the label.

5

The label of the present invention does not have the "dust" impregnated in the second major surface, as this would interfere with application of the print 39. Accordingly, the label needs an additional slip varnish 45 to provide C.O.F. characteristics similar to a convention label.

10

A suitable varnish was formed utilizing the following components:

- Labelstar 2540 Varnish 11132144 is a slip varnish (C.O.F.) Modified Starpac AS3 Varnish 11006151. This was achieved by an addition of 1.2% of polefin wax to Starpac AS3 Varnish 11006151.
- 15 Synthetic Silicone alternate. 0.1%
 - Glassene Silicone alternate 0.99%
 - Plasticiser Agent 0.5%
 - Polyester Waxing Agent $1.23\% \pm 0.3\%$
 - Emulsifier $2.0\% \pm 0.6\%$

20

The overall C.O.F. of the slip varnish may be varied by modifying the combinations of both natural waxes and synthetic silicones so that a minimum range of 0.25 C.O.F. and a maximum range of 0.40 may both be achieved, as required.

Figure 7 illustrates an alternative label construction. The label 50 is formed in a generally similar manner to the label 1 and like parts are denoted with like reference numerals. In particular, the label 50 includes first and second layers 5,7 with a respective release coating 38 and adhesive 40, and slip varnish 45. The layers 5,7 are, however, formed of transparent material 51,52 preferably clear polyester and polypropylene, respectively. Instead of having a single layer of print 39, formed on the second layer 7, a plurality of overlaid print layers 53, 54 and 55 are instead formed on one side 56 of the second layer 7. The print layers

comprise a first layer 53 printed directly onto the material 52 as a 'reverse' image for display toward the first major surface of the label, a masking layer 54 and a final layer 55 forming a second image facing outwardly of the second major surface of the label. Each of the print layers 53,55 may of course in turn comprise a number of different ink layers required to form 5 each of the images.

Such an arrangement of print layers simplifies the production process of Figure 4 to some extent since all of the printing procedures may be effected from one side only of the label and the need for a protective overlaminate 41, applied at step 30, may be dispensed with.

10

It is, however, a further possibility that the print layers 53,54,55 may be used in combination with a printed or opaque polyester layer 5 such that the image of print layer 53 may be obscured prior to removal of the portion 8. For that purpose, the polyester layer may perhaps be metallized. Such an arrangement may have application to a competition or a game where an image associated with a prize or the like needs to initially be hidden. Otherwise, the release strength factor between the first layer and removable portion 8, the relative density of the layers, to allow for appropriate scoring, and the coefficient of friction characteristics are the same as for the label 1.

20 The invention has been described by way of non-limiting example only, and many modifications or variations may be made thereto without departing from the spirit or the scope of the composite label as described.

CLAIMS:

- A composite label including a first layer of printed polyester for displaying information at a first major surface of the label and a second layer including material having
 a density less than the polyester for presenting information at a second major surface of the label, the second layer including a removable portion arranged to be separated from the label and secured to another object.
- 2. A composite label as claimed in claim 1, wherein the material of the second layer 10 comprises polypropylene.
- 3. A composite label as claimed in claim 1 or 2, wherein the second layer includes an adhesive on one side thereof for securing the removable portion to the first layer and the first layer includes a release coating to facilitate removal of the portion therefrom, the adhesive and release coating providing a release strength factor between 17 grams force/50mm and 30 grams force/50mm.
- 4. A composite label including a first layer for displaying information at a first major surface of the label and a second layer including a removable portion arranged to be separated 20 from the label and secured to another object, wherein the second layer includes an adhesive on one side thereof for securing the removable portion to the first layer and the first layer includes a release coating to facilitate removal of the portion therefrom, the adhesive and release coating providing a release strength factor of between 17 grams force/50mm and 30 grams force/50mm.

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- 5. A composite label as claimed in claim 4, wherein the first layer is formed of polyester and the second layer includes material having a density less than the polyester.
- 6. A composite label as claimed in claim 4, wherein the second layer is printed with 30 information for display to both sides thereof.

- 7. A composite label as claimed in claim 6, wherein the first layer is transparent such that the information printed on the second layer is viewable from the first major surface of the label.
- 5 8. A composite label as claimed in claim 6, wherein the second layer includes a transparent material with a plurality of overlaid print layers applied thereto comprising a first image printed on the transparent material, for display toward the first major surface, a masking layer and a second image facing outwardly of the second major surface.
- 10 9. A composite label as claimed in claim 8, wherein the transparent material of the second layer is clear polypropylene.
 - 10. A composite label as claimed in claim 1 or 4, wherein a clear polypropylene laminate is applied on the first major surface.
 - 11. A composite label as claimed in claim 1 or 4, wherein a varnish is applied to the second major surface to provide the second major surface with a coefficient of friction in the range of about 0.25 to 0.40.
- 20 12. A composite label as claimed in claim 1 or 5, wherein the polyester is white.

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- 13. A composite label as claimed in claim 1 or 5, wherein the polyester is metallized.
- 14. A composite label as claimed in claim 1 or 4, wherein a depth dimension of the first 25 layer is in the range of about 12 micron to 30 micron.
 - 15. A composite label as claimed in claim 14, wherein the second layer has a depth dimension in the range of about 23 micron to 40 micron.
- 30 16. A composite label as claimed in claim 1 or 4, wherein the second layer includes a mark for detection by an electronic eye to facilitate actuation of a cutting device, for scoring

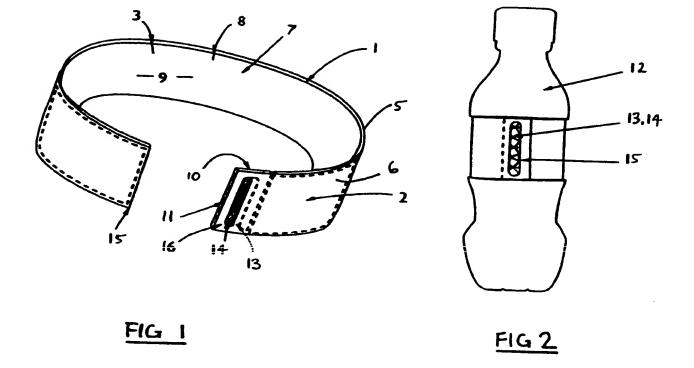
- 12 -

the second layer so as to define the removable portion.

17. A composite label as claimed in claim 16, wherein the portion is in the form of a sticker.

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18. A composite label as claimed in claim 16, for use with a bottle, the label including an aggressive adhesive applied to the second major surface in a region adjacent the removable portion, to facilitate secure attachment of the label to the bottle.



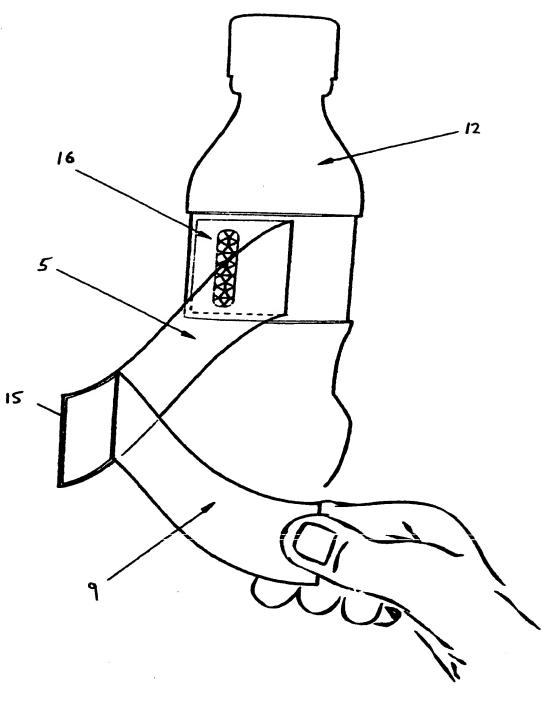
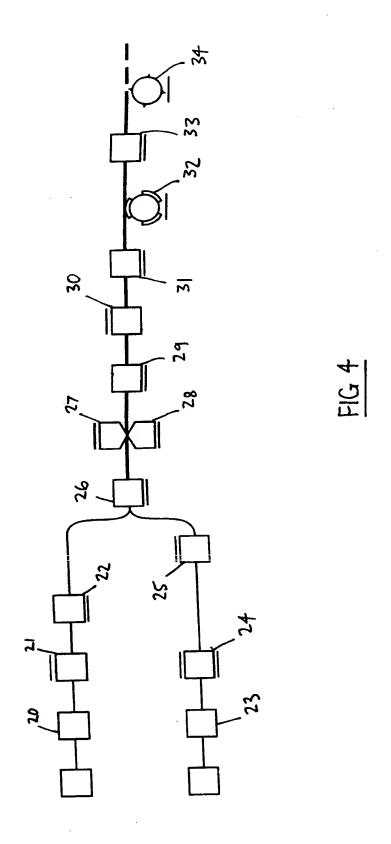


FIG 3



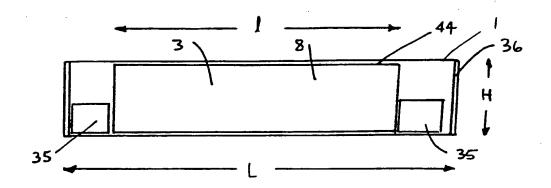


FIG 5a

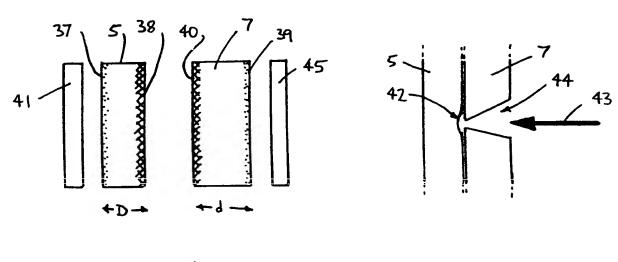
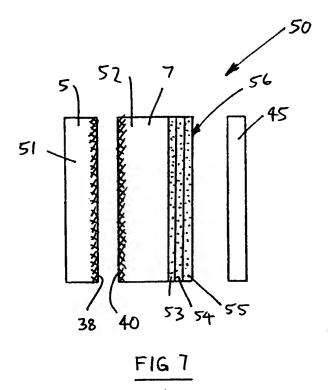


FIG 5b

FIG 6



INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU 99/00681

A.	CLASSIFICATION OF SUBJECT MATTER					
Int Cl ⁶ :	G09F 3/10					
According to International Patent Classification (IPC) or to both national classification and IPC						
В.	FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC: G09F 3/10						
Documentation	searched other than minimum documentation to the ex	tent that such documents are included in t	the fields searched			
Electronic data WPAT	base consulted during the international search (name o	f data base and, where practicable, search	terms used)			
C.	DOCUMENTS CONSIDERED TO BE RELEVANT	Γ				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
A	CA 2172237 A (WALLACE COMPUTER SER 1996Error! Bookmark not defined.	VICES, INC) 8 December	1			
P,A	Derwent Abstract Accession No. 98-588748/50, Class A97, JP 10-264338 (FUJI SEAL KOGYO KK) 6 October 1998					
х	US 4398985 A (EAGON) 16 August 1983 See column 5, lines48 - 51		4			
P,A	Derwent Abstract Accession No. 98-255608, Cla JP 10-081860 (OJI PAPER CO) 31 March 1998		4			
	Further documents are listed in the continuation of Box C	X See patent family an	nex			
* Specia "A" docum not co "E" earlier the int "L" docum or whi anothe "O" docum exhibi "P" docum date b	the application but cited to application but cited to aderlying the invention e claimed invention cannot asidered to involve an taken alone e claimed invention cannot e step when the document is ch documents, such on skilled in the art at family					
Date of the actu	ual completion of the international search	Date of mailing of the international sear 2 2 SEP 1				
20 September						
AUSTRALIAN PO BOX 200 WODEN ACT AUSTRALIA	ing address of the ISA/AU PATENT OFFICE 2606 (02) 6285 3929	J.W. THOMSON Telephone No.: (02) 6283 2214				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU 99/00681

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Do	cument Cited in Search Report			Patent	Family Member		
US	4398985	AU	66692/81	DE	3102850	FR	2475459
		GB	2068833	IT	8167167	JP	56127446
		NL	8100594				
							END OF ANNEX

The demandmust be filed directly with t	the competent International Preliminary Examining Authoritivor of two or more Authorities are competent,
with the one chosen by the applicant.	The full name or two-letter code of that Authority may be indicated by the applicant on the line below
IPEA/	

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

Identification of IPEA		Date of receipt of DEMAND		
Box No. 1 IDENTIFICATION OF THE INTERNATIONAL APPLICAT		APPLICATION	Applicant's or agent's file reference 2207082/DH	
International application No. PCT/AU99/00681	1		(Earliest) Priority date (day/month/year) 24 SEP 1998 (24/9/98)	
Title of invention A LABEL		, ,	WATER OF THE PARTY	
Box No. II APPLICANT(S)				
Name and address: (Familynamejollowed) The addressmust include		l official designation.	Telephone No.:	
SCOTT, Leonard, James 78 Grant Road Somerville, Victoria 3912			Facsimile No.:	
Australia		•	Teleprinter No.:	
State (that is, country) of nationality: AU Name and address: (Familyname followed)		State (that is, country AU Inflicial designation. The		
AU		AU		
AU		AU	addressmust include postal code and name of country	
AU Name and address: (Familyname followed) State (that is, country) of nationality:	y givenname: for a legal entity. ful	AU Iofficialdesignation. The	addressmust include postal code and name of country	

Sheet No. .2.

International application No. PCT/AU99/00681

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE					
The following person is X agent common representative					
and X has been appointed earlier and represents the applicant(s) also for international pr	eliminary examination.				
is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.					
is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to					
the agent(s)/common representative appointed earlier.					
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) The address must include postal code and name of country.					
HENSHAW, Damon +613 9254 2777					
Davies Collison Cave 1 Little Collins Street	Facsimile No.:				
Melbourne, Victoria 3000	+613 9254 2770				
Australia	Teleprinter No.:				
	·_ ·_ ·_				
Address for correspondence: Mark this check-box where no agent or common re	presentative is/has been appointed and the				
space above is used instead to indicate a special address to which correspondence	should be sent.				
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION					
Statement concerning amendments:*	-				
1. The applicant wishes the international preliminary examination to start on the basis of:					
the international application as originally filed					
the description as originally filed					
as amended under Article 34					
the claims as originally filed					
as amended under Article 19 (together with any accompanying	statement)				
as amended under Article 34					
the drawings as originally filed					
as amended under Article 34					
2. The applicant wishes any amendment to the claims under Article 19 to be consider	red as reversed.				
3. The applicant wishes the start of the international preliminary examination to be po	stponed until the expiration of 20 months				
from the priority date unless the International Preliminary Examining Authority runder Article 19 or a notice from the applicant that he does not wish to make such box may be marked only where the time limit under Article 19 has not yet expired.	amendments (Rule 69.1(d)). (This check-				
* Where no check-box is marked, international preliminary examination will start on the	•				
as originally filed or, where a copy of amendments to the claims under Article 19 and/or ar under Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.	nendments of the international application				
Language for the purposes of international preliminary examination: English					
X which is the language in which the international application was filed.					
which is the language of a translation furnished for the purposes of internation	nal search.				
which is the language of publication of the international application.	national and indicate a summination				
which is the language of the translation (to be) furnished for the purposes of inter	national preliminary examination.				
Box No. V ELECTION OF STATES					
The applicant hereby elects all eligible States (that is, all States which have been designa the PCT)	sed and which are bound by Chapter II of				
excluding the following States which the applicant wishes not to elect:	;				

Sheet No. 3.

International application No. PCT/AU99/00681

Box No. VI CHECK LIST					
The demand is accompanied by the following ele Box No. IV, for the purposes of international pr	ements. in the	language refer	red to in	Examining A	onal Preliminary uthority use only
				received	not received
translation of international application	:		sheets		
2. amendments under Article 34	:		sheets		
copy (or, where required, translation) of amendments under Article 19	:		sheets		
 copy (or, where required, translation) of statement under Article 19 	:		sheets		
5. letter	:	1	sheets		
6. other (specify)	:		sheets		
The demand is also accompanied by the item(s) may	rked below:				· · · · · · · · · · · · · · · · · · ·
1. fee calculation sheet		4 5	tatement ex	cplaining lack of signat	ure
2. separate signed power of attorney				ind or amino acid sequi adable form	ence listing in
copy of general power of attorney;			other (speci		
reference number, if any:					
Dawon Henshaw a member of Davies Collisc for and on behalf of the A	on Cave,	, Paten			romreading the demand).
For Internation	nal Preliminar	ry Examining	Authority (ise only	
1. Date of actual receipt of DEMAND:					
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):					
3. The date of receipt of the demand is AF from the priority date and item 4 or 5,	•		onths	The applicant informed acco	
4. The date of receipt of the demand is Rule 80.5.	WITHIN the	period of 19	months fro	m the priority date as	extended by virtue o
5. Although the date of receipt of the den is EXCUSED pursuant to Rule 82.	nand is after t	the expiration	of 19 mon	ths from the priority d	ate, the delay in arriva
	For Internatio	onal Bureau us	e only		
Demand received from IPEA on:					•

Original (for SUBMISSION) - printed on 24.08.1999 03:34:33 PM

0	For receiving Offic use only	
0-1	International Application No.	
• •	mematoral replication rec	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT	
	International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.83
		(updated 01.03.1999)
0-5	Petition	
	The undersigned requests that the present international application be	
	processed according to the Patent	
	Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Australian Patent Office (RO/AU)
0-7	Applicant's or agent's file reference	2207082/DH
ı	Title of invention	A LABEL
11-	Applicant	
II-1	This person is:	applicant and inventor
II-2	Applicant for	all designated States
11-4	Name (LAST, First)	SCOTT, Leonard, James
II-5	Address:	78 Grant Road
		Somerville, Victoria 3912
		Australia
11-6	State of nationality	AU
11-7	State of residence	AU
II-8	Telephone No.	
II-9	Facsimile No.	
II-10	e-mail	
IV-1		
!V-!	Agent or common representative; or address for correspondence	
	The person identified below is	agent
	hereby/has been appointed to act on	agenc
	behalf of the applicant(s) before the competent International Authorities as:	
IV-1-1	Name (LAST, First)	HENSHAW, Damon
IV-1-2	Address:	Davies Collison Cave
		1 Little Collins Street
		Melbourne, Victoria 3000
IV-1-3	Telephone No.	Australia
IV-1-4		+613 9254 2777
	Facsimile No.	+613 9254 2770
IV-1-5	e-mail	dhenshaw@davies.com.au

Original (for SUBMISSION) - printed on 24.08.1999 03:34:33 PM

Additional agent(s) Name(s) Name(s) Name(s) Designation of States Regional Patent (other kinds offered between parentheses after the designation(s) concerned) ALLEN, Leon; HIND, Raymond ALLEN, Leon; HIND, Raymond AP: GH GM KE LS MW SD SZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CHELI CY DE DK ES FI FR GB GR II TU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and AN OA DE B BB BG BR BY CA CHELI CN CU CZ DE DK EE ES FI GB GD GE GM GW HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LI LU LV MD MG MK MM MW NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW V-5 Precautionary Designation Statement In addition to the designations made under tems V-1, V-2 and V-3, the applicant designations are subject to confirmation and that any designation which is not confirmed before the expraision of 15 regarded as withdrawn by the applicant designations are subject to confirmation and that any designation which is not confirmed before the expraision of 15 regarded as withdrawn by the applicant designations are subject to confirmation		-T	
Name(s) Name(s) ALLEN, Leon; HIND, Raymond	IV-2	Additional agent(s)	additional agent(s) with same address as
V-1 Designation of States Regional Patent (other kinds of protection or treatment, if any, are specified between parentsess after the designation(s) concerned) AP: GH GM KE LS MW SD SZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CHELI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentsess after the designation(s) concerned) V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentsess after the designations) statement in addition to the designation smade under item V-1, V-2 and V-3, the applicant also makes under Rule 4 9(t) all designations with would be permitted under the PCT except any designations (s) of the State(s) indicated under tem V-4 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not months from the priority date is to be regarded as withfrawn by the applicant at the expiration of that time limit. V-6 Exclusion(s) from precautionary designations with so rot and the expiration of that time limit. V-7 Exclusion(s) from precautionary designations with so rot and the expiration of that time limit. V-8 Exclusion(s) from precautionary designations with so rot and the expiration of dealier national application.			
Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation (s) concerned		Name(s)	ALLEN, Leon; HIND, Raymond
(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) **The State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH£LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a Contracting State of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a Contracting State of the PCT CL			
of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH£LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT V-2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) AE AL AM AT AU AZ BA BB BG BR BY CA CH£LI CN CU CZ DE DK EE ES FI GB GD GE GM GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TW TR TT UA UG US UZ VN YU ZA ZW V-5 Precautionary Designation Statement adesignations which would be permitted under the PCT except any designations which would be permitted under the PCT except any designations which would be regarded as withdrawn by the applicant declares that those additional designations of that time limit. V-6 Exclusion(s) from precautionary designation of that time limit. V-7 Pricy Laim of earlier national application of earlier national application application of earlier national application of earlier national application of earlier national application of earlier national application. V-1 Pricy Laim of earlier national application of earlier national application. V-1 Pricy Laim of earlier national application. V-2 September 1998 (24.09.1998) PP6135	V-1		
EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT V.2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) AE AL AM AT AU AZ BA BB BG BR BY CA CH&LI CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW V.5 Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designations which would be permitted under the PCT except any designations which would be regarded as withdrawn by the applicant also makes under Rule 4.9(b) all designations which would be regarded as withdrawn by the applicant at the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. V-6 Exclusion(s) from precautionary designations V-1 Priority claim of earlier national application V-1-1 Filing date V-1 Profity claim of earlier national application V-1-1 Profity claim of earlier national application V-1-1 Profity claim of earlier national application V-1-1 Profity claim of earlier national application			
other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CHELI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT AE AL AM AT AU AZ BA BB BG BR BY CA CHELI CN CU CZ DE DK EE ES FI GB GD GE GH GM H HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW V-5 Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant aso makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) for the State(s) indicated under item V-6 below. The applicant decires that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. V-6 Exclusion(s) from precautionary designations VI-1 Priority claim of earlier national application VI-1 Number Other European Patent Convention and that sup designations EXCLUSION(S) from precautionary designations VI-1 Priority claim of earlier national application		after the designation(s) concerned)	
of the Eurasian Patent Convention and of the PCT EP: AT BE CH£LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT V:2 National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned) RE AL AM AT AU AZ BA BB BG BR BY CA CH6LI CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU DI LI IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW V-5 Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also maken which we wish which we wish the protection of 15 months from the priority date is to be regarded as withfrawn by the applicant at the expiration of that time limit. V-6 Exclusion(s) from precautionary designations V-7 Exclusion(s) from precautionary designations V-8 Exclusion(s) from precautionary designations V-9 Exclusion(s) from precautionary designations V-1 Priority claim of earlier national application J-1 Im TR TD JP MC TO JP MC JP JP MC JP JP MC JP JP MC JP JP JP MC JP JP JP MC JP JP JP MC JP			•
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VI-2	Priority claim of earlier national application		
VI-2-1	Filing date	02 August 1999 (02.0	18 1999)
VI-2-2	Number	42420/99	.6.13337
VI-2-3	Country	AU	
VI-3	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1, VI-2	
VII-1	International Searching Authority Chosen	Australian Patent Of	fice (ISA/AU)
VIII	Check list	number of sheets	electronic file(s) attached
VIII-1	Request	4	-
/III-2	Description	9	_
/III-3	Claims	3	_
/III-4	Abstract	1	scott-le.txt
/111-5	Drawings	5	_
/111-7	TOTAL	22	
	Accompanying items	paper document(s) attached	electronic file(s) attached
/III-8	Fee calculation sheet	√	_
'III-16	PCT-EASY diskette	_	diskette
/111-18	Figure of the drawings which should accompany the abstract	3	
/III-19	Language of filing of the international application	English	
X-1	Signature of applicant or agent	Manage	
X-1-1	Name (LAST, First)	HENSHAW, Damon	

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AU
10-6	Transmittal of search copy delayed until search fee is paid	

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PCT REQUEST

2207082/DH

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11-1	Date of receipt of the record copy by		
	the International Bureau	 	

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

HENSHAW, Damon Davies Collison Cave 1 Little Collins Street Melbourne, VIC 3000 AUSTRALIE

WEINESUNT, A O APR 2000

IMPORTANT NOTICE

Date of mailing (day/month/year) 06 April 2000 (06.04.00)

Applicant's or agent's file reference 2207082/DH

International application No.

PCT/AU99/00681

International filing date (day/month/year) 24 August 1999 (24.08.99)

Priority date (day/month/year)

24 September 1998 (24.09.98)

Applicant

SCOTT, Leonard, James

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

AU,CN,JP,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MD,MG,MK,MN,MW,MX,NO,NZ,OA,

PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,UA,UG,UZ,VN,YU,ZA,ZW
The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 06 April 2000 (06.04.00) under No. WO 00/19395

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The Int rnational Bureau f WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

PATENT COOPERATION TREATY

ere.		William	44.50
From the INTERNATIONAL PRELIMINARY EXAMINING AUTH	ORITY		
To: Agent :		PCT	/ 1
DAVIES COLLISON CAVE 1 Little Collins Street MELBOURNE VIC 3000	OF DEMA PRELI (PCT Ru	OTIFICATION OF RECEIPT ND BY COMPETENT INTER MINARY EXAMINING AUTI tile 59.3(e) and 61.1(b), first sen tinistrative Instructions, Section 4 MAY 2000 (4/5/00)	HORITY Itence
Applicant's or agent's file reference 2207082	IM	PORTANT NOTIFICATION	
International application No. International filing date PCT/AU99/00681 24 AUG 1999 (2	(day/month/year) 24/8/99)	Priority date (day/month/year) 24 SEP 1998 (24/9/9	
Applicant Scott; Leonard James			
Scott; Leonard James			
2. That date of receipt is: the actual date of receipt of the demand by the actual date of receipt of the demand on the actual date of receipt of the demand of the actual date of receipt of the demand of the actual date of receipt of the demand of the actual date of receipt of the demand of the actual date of the actual dat	• ,		
the date on which this Authority has, in res PCT/IPEA/404), received the required corr	ponse to the Invitation to ections.	o correct defects in the demand (Fo	rm
3. Attention: That date of receipt is AFTER the expire elections(s) made in the demand does (do) not have the from the priority date (or later in some Offices) (Article be performed within 20 months from the priority date (PCT Applicant's Guide, Volume II. (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) This notification confirms the integral of the priority date (If applicable) T	e effect of postponing the 2 39(1)). Therefore, the (or later in some Offices	e entry into the national phase until acts for entry into the national phase) (Article 22). For details, see the	30 months se must
4. Only where paragraph 3 applies, a copy of this notification has	been sent to the Interna	itional Bureau.	
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail: pct@ipaustralia.gov.au Facsimile No. 02 6285 3929	Authorized officer Telephone No.	John COLDWELL 02 6283 2357	

Form PCT/IPEA/402 (July 1998)

REC'D 1 8 OCT 2000

INTERNATIONAL PRELIMINARY EXAMINATION REPORTING

PCT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 2207082	FOR FURTHER ACTION		ransmittal of International Preliminary (Form PCT/IPEA/416).
International application No.	International filing da	te (day/month/year)	Priority Date (day/month/year)
PCT/AU99/00681	24 August 1999		24 September 1998
International Patent Classification (IPC)	or national classification	on and IPC	
Int. Cl. ⁷ G09F 3/10			
Applicant SCOTT, Leonard James			
This international preliminary Authority and is transmitted to			International Preliminary Examining
2. This REPORT consists of a total of 3 sheets, including this cover sheet.			
	ne basis for this report a	nd/or sheets containing	ription, claims and/or drawings which have g rectifications made before this Authority der the PCT).
These annexes consist of a total	al of sheet(s).		
3. This report contains indications relati	ing to the following iter	ns:	
I X Basis of the repor	t		
II Priority			
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of it	IV Lack of unity of invention		
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain documents cited			
VII Certain defects in	VII Certain defects in the international application		
VIII Certain observation	VIII Certain observations on the international application		
Date of submission of the demand 20 April 2000		Date of completion of the report 10 October 2000	
Name and mailing address of the IPEA/AU		Authorized Officer	
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		J.W. THOMSON Telephone No. (02) 623	83 2214

hternational application No.

PCT/AU99/00681

I.	Basis of the report
1.	With regard to the elements of the international application:*
	X the international application as originally filed.
	the description, pages, as originally filed,
	pages, filed with the demand,
	pages, received on with the letter of
	the claims, pages, as originally filed,
	pages , as amended (together with any statement) under Article 19,
	pages, filed with the demand,
	pages, received on with the letter of
	the drawings, pages, as originally filed,
	pages , filed with the demand,
	pages, received on with the letter of
	the sequence listing part of the description:
	pages , as originally filed
	pages , filed with the demand
	pages, received on with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of
	the sequence listing:
	contained in the international application in written form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
4.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig.
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered
*	to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
, *	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
**	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

citations and explanations supporting such statement			
1.	Statement		
	Novelty (N)	Claims 1 - 3, 5 - 18	YES
		Claims 4	NO
	Inventive step (IS)	Claims 1 - 3, 5 - 18	YES
		Claims 4	NO
	Industrial applicability (IA)	Claims 1 - 18	YES
		Claims	NO

2. Citations and explanations (Rule 70.7)

US 4398985 A (EAGON) 16 August 1983

This citation discloses a label having the features defined in claim 4. See in particular column 5 lines 48 - 51.